

LifeSeq® Gold
Genomics for LifeATTACHMENT II
Gene Detail

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Gene Information

Gene ID: 396578 Template Count: 6 Seq Count: 557 Clone Count: 483
Top Hit ID: g180198 Hit Species: Homo sapiens
Hit Type: Exact E-Value: 0.0e+00 Pct ID: 99

Gene Description: Human carcinoembryonic antigen mRNA.

Genomic Data

**Templates**

| | Template ID | Template Description | Top Hit ID | Hit Species |
|-------------------------------------|------------------|--|----------------|-------------|
| <input checked="" type="checkbox"/> | <u>396578.12</u> | Human carcinoembryonic antigen mRNA. | <u>g180198</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>396578.6</u> | Human BGP gene for biliary glycoprotein, | <u>g29447</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>396578.10</u> | Human carcinoembryonic antigen (CEA) gen | <u>g180206</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>396578.15</u> | Human carcinoembryonic antigen mRNA (CEA | <u>g180222</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>396578.2</u> | Human carcinoembryonic antigen mRNA. | <u>g180198</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>396578.14</u> | Human carcinoembryonic antigen (CEA) gen | <u>g180208</u> | Homo sapien |

Uncheck All

Submit template IDs to BLAST2 **Protein Function**

Function hierarchy

- Adhesion and molecular recognition
 - Adhesion
 - Ig superfamily
- Localized and structural proteins
 - Membrane
 - Peripheral and anchored membrane proteins

Tissue Distribution

1

| <u>Tissue Category</u> | <u>Clone Count</u> | <u>Found in</u> | <u>Abs Abund</u> | <u>Pct Abund</u> | <u>Pct Spec</u> |
|-------------------------|--------------------|-----------------|------------------|------------------|-----------------|
| Cardiovascular System | 266190 | <u>0/68</u> | 0 | 0.0000 | 0.00 |
| Connective Tissue | 144645 | <u>1/47</u> | 1 | 0.0007 | 0.64 |
| Digestive System | 501101 | <u>61/148</u> | 342 | 0.0682 | 62.17 |
| Embryonic Structures | 106713 | <u>0/21</u> | 0 | 0.0000 | 0.00 |
| Endocrine System | 225386 | <u>1/53</u> | 1 | 0.0004 | 0.36 |
| Exocrine Glands | 254635 | <u>2/64</u> | 3 | 0.0012 | 1.09 |
| Genitalia, Female | 427284 | <u>8/106</u> | 17 | 0.0040 | 3.65 |
| Genitalia, Male | 448207 | <u>2/114</u> | 5 | 0.0011 | 1.00 |
| Germ Cells | 38282 | <u>0/5</u> | 0 | 0.0000 | 0.00 |
| Hemic and Immune System | 680277 | <u>4/159</u> | 49 | 0.0072 | 6.56 |
| Liver | 109378 | <u>1/35</u> | 2 | 0.0018 | 1.64 |
| Musculoskeletal System | 159280 | <u>0/47</u> | 0 | 0.0000 | 0.00 |
| Nervous System | 955753 | <u>0/198</u> | 0 | 0.0000 | 0.00 |
| Pancreas | 110207 | <u>4/24</u> | 26 | 0.0236 | 21.51 |
| Respiratory System | 390086 | <u>4/93</u> | 6 | 0.0015 | 1.37 |
| Sense Organs | 19256 | <u>0/8</u> | 0 | 0.0000 | 0.00 |
| Skin | 72292 | <u>0/15</u> | 0 | 0.0000 | 0.00 |
| Stomatognathic System | 12923 | <u>0/10</u> | 0 | 0.0000 | 0.00 |
| Unclassified/Mixed | 120926 | <u>0/13</u> | 0 | 0.0000 | 0.00 |
| Urinary Tract | 279062 | <u>0/64</u> | 0 | 0.0000 | 0.00 |
| Totals | 5321883 | <u>88/1292</u> | 452 | 0.0091 | 100.00 |

Requested by: LG051_092000_GOLD_RO on Thu Sep 28 14:59:30 2000



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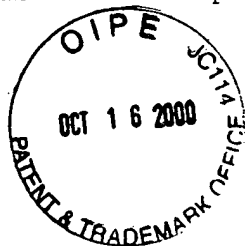
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Gene Information

Gene ID: 1383133 Template Count: 17 Seq Count: 2876 Clone Count: 279
 Top Hit ID: g35740 Hit Species: Homo sapiens
 Hit Type: Exact E-Value: 0.0e+00 Pct ID: 99

Gene Description: Human mRNA for prostate specific antigen.

Genomic Data



Templates

| | Template ID | Template Description | Top Hit ID | Hit Species |
|-------------------------------------|-------------------|--|----------------|-------------|
| <input checked="" type="checkbox"/> | <u>1383133.7</u> | Human mRNA for prostate specific antigen | <u>g35740</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.17</u> | Human mRNA for prostate specific antigen | <u>g35740</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.8</u> | Human mRNA for prostate specific antigen | <u>g35740</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.16</u> | Human prostate specific antigen (PA) gen | <u>g189525</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.13</u> | Human mRNA for prostate specific antigen | <u>g35740</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.2</u> | Human PSA gene for prostate specific ant | <u>g35730</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.9</u> | Human prostate-specific antigen (PA) gen | <u>g341200</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.11</u> | Human mRNA for prostate specific antigen | <u>g35720</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.14</u> | Human mRNA for prostate specific antigen | <u>g35740</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.12</u> | Human prostate specific antigen gene, co | <u>g190552</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.15</u> | Human prostate specific antigen gene, co | <u>g190552</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.10</u> | Human prostate specific antigen gene, co | <u>g190552</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.1</u> | Human prostate specific antigen (PA) gen | <u>g189523</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.3</u> | Human prostate specific antigen (PA) gen | <u>g189529</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.4</u> | Human mRNA for prostate specific antigen | <u>g35740</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.5</u> | Human mRNA for prostate specific antigen | <u>g35720</u> | Homo sapien |
| <input checked="" type="checkbox"/> | <u>1383133.6</u> | Human mRNA for prostate specific antigen | <u>g35740</u> | Homo sapien |

Uncheck All

Submit template IDs to

Protein Function
Enzyme hierarchy

Hydrolases
 Acting on peptide bonds (peptide hydrolases)
 Serine endopeptidases

Function hierarchy

Protein modification and maintenance
 Proteases
 Serine proteases
 Localized and structural proteins
 Secreted and extracellular
 Other secreted and extracellular

Pathway hierarchy

Metabolism
 Protein metabolism
 Post-translation
 Protein cleavage and degradation

Tissue Distribution

| <u>Tissue Category</u> | <u>Clone Count</u> | <u>Found in</u> | <u>Abs Abund</u> | <u>Pct Abund</u> | <u>Pct Spec</u> |
|-------------------------|--------------------|-----------------|------------------|------------------|-----------------|
| Cardiovascular System | 266190 | <u>0/68</u> | 0 | 0.0000 | 0.00 |
| Connective Tissue | 144645 | <u>1/47</u> | 4 | 0.0028 | 0.45 |
| Digestive System | 501101 | <u>6/148</u> | 6 | 0.0012 | 0.19 |
| Embryonic Structures | 106713 | <u>1/21</u> | 1 | 0.0009 | 0.14 |
| Endocrine System | 225386 | <u>1/53</u> | 1 | 0.0004 | 0.06 |
| Exocrine Glands | 254635 | <u>3/64</u> | 4 | 0.0016 | 0.26 |
| Genitalia, Female | 427284 | <u>1/106</u> | 1 | 0.0002 | 0.03 |
| Genitalia, Male | 448207 | <u>65/114</u> | 2728 | 0.6086 | 97.07 |
| Germ Cells | 38282 | <u>0/5</u> | 0 | 0.0000 | 0.00 |
| Hemic and Immune System | 680277 | <u>1/159</u> | 5 | 0.0007 | 0.11 |
| Liver | 109378 | <u>0/35</u> | 0 | 0.0000 | 0.00 |
| Musculoskeletal System | 159280 | <u>2/47</u> | 13 | 0.0082 | 1.31 |
| Nervous System | 955753 | <u>5/198</u> | 6 | 0.0006 | 0.10 |
| Pancreas | 110207 | <u>1/24</u> | 2 | 0.0018 | 0.29 |
| Respiratory System | 390086 | <u>0/93</u> | 0 | 0.0000 | 0.00 |
| Sense Organs | 19256 | <u>0/8</u> | 0 | 0.0000 | 0.00 |
| Skin | 72292 | <u>0/15</u> | 0 | 0.0000 | 0.00 |
| Stomatognathic System | 12923 | <u>0/10</u> | 0 | 0.0000 | 0.00 |
| Unclassified/Mixed | 120926 | <u>0/13</u> | 0 | 0.0000 | 0.00 |
| Urinary Tract | 279062 | <u>0/64</u> | 0 | 0.0000 | 0.00 |
| Totals | 5321883 | <u>87/1292</u> | 2771 | 0.0524 | 100.00 |

Requested by: LG051_092000_GOLD_RO on Thu Sep 28 15:06:43 2000
